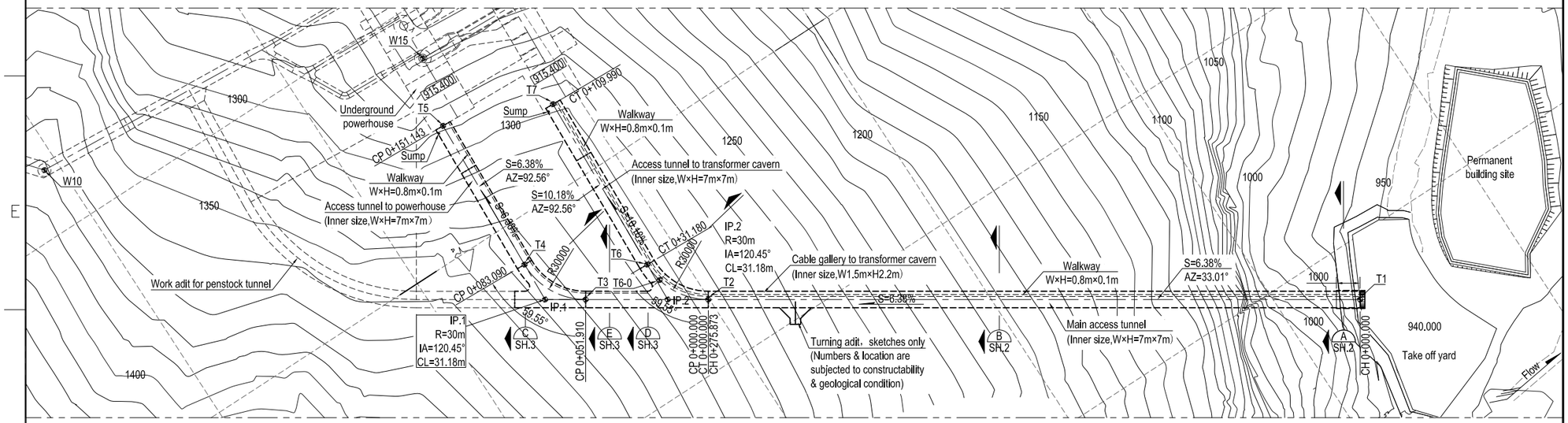
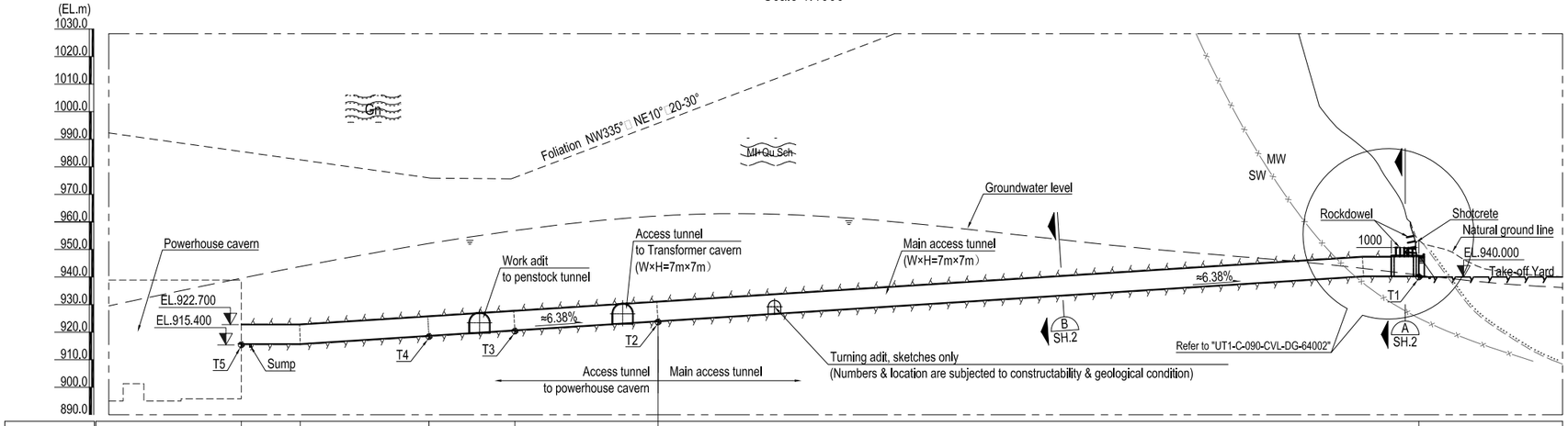
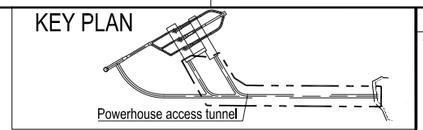
PLAN LAYOUT OF MAIN ACCESS TUNNEL
Scale 1:1000



LONGITUDINAL PROFILE OF MAIN ACCESS TUNNEL TO POWERHOUSE CAVERN
Scale 1:1000



KEY PLAN



NOTE

1. All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.

LEGEND:

- Gn — Gneiss
- Mi+Qu.Sch — Interbedded mica schist and quartz-schist
- SW / MW — Inferred boundry between moderately weathered and slight weathered
- Inferred lithology boundry
- J15 280°/60° — Joint number and attitude (Dip direction/DIP)
- F12 NE12°/70° — Fault number and attitude (Dip direction/DIP)
- Inferred ground water level
- Section of concrete

Scale: 1:1000 0 10 20 30 40 50m

REFERENCE DRAWINGS

UT1-C-300-CVL-DG-40001	GENERAL LAYOUT DRAWING OF POWERHOUSE AREA
UT1-C-090-CVL-DG-64002	EXCAVATION AND SUPPORT DRAWING OF ACCESS TUNNEL TO THE POWERHOUSE

SYMBOL AND LEGEND

FOR CONSTRUCTION

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0B	06,MAY,2022	AS RN-0076	WANG X.H.	K. J. KIM	Y. S. SON
0A	28,JUL,2021	First issue	ZHANG J.Q.	K. J. KIM	Y. S. SON

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER: NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER: TRACTEBEL ENGIE / jade CONSULT

CONTRACTOR: DOOSAN Enerbility

DRAWING TITLE

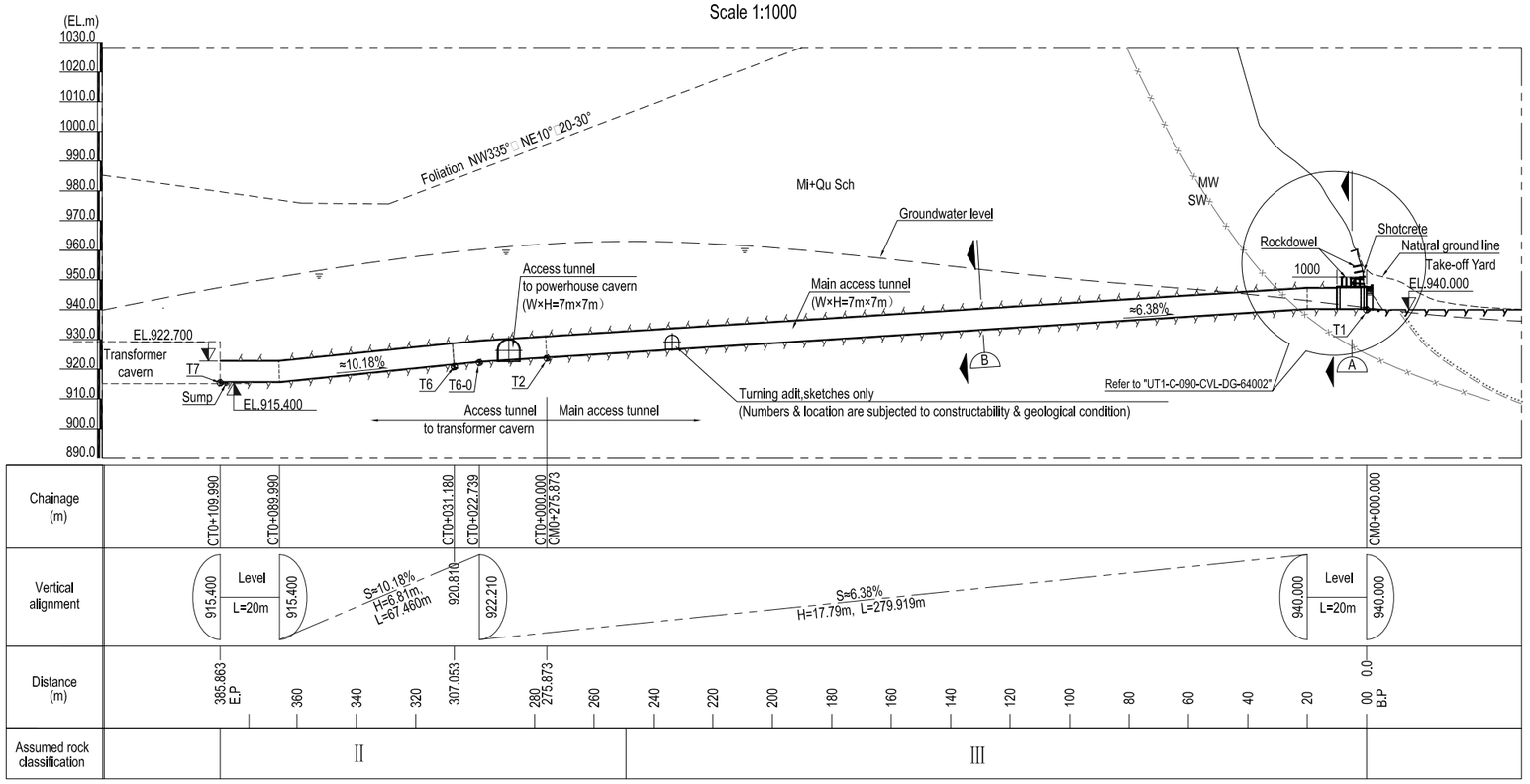
LAYOUT OF MAIN ACCESS TUNNEL TO POWERHOUSE

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-090-CVL-DG-64001	1 OF 3	0

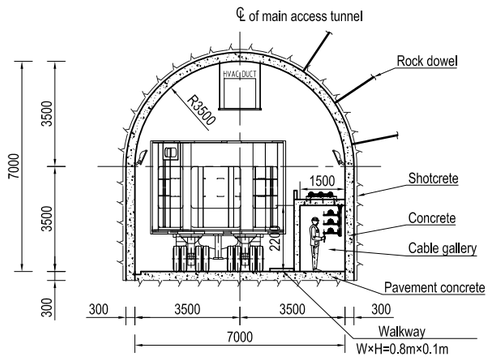
A1 (594 x 841 MM)

LONGITUDINAL PROFILE OF MAIN ACCESS TUNNEL TO TRANSFORMER CAVERN

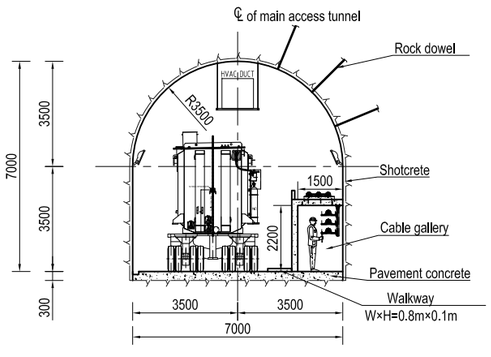
Scale 1:1000



SECTION A-A
(FOR PORTAL AND ROCK IV) 1:100



SECTION B-B
(FOR ROCK I, II, III) 1:100



COORDINATES OF CONTROL POINT

Point No.	Coodinates			Remark
	E(m)	N(m)	Z(m)	
W10	619126.258	3107206.255		Centerline of vertical pressure shaft
W15	619078.651	3107046.174	906.000	Centepoint of unit 1#
T1	618776.979	3106769.119	940.000	Portal of access tunnel
T2	618927.283	3107000.451	923.678	Plane turning point of access tunnel to transformer cavern
T3	618955.564	3107043.980	920.368	Plane turning point of access tunnel to powerhouse cavern
T4	618982.063	3107057.605	918.380	Plane turning point of access tunnel to powerhouse cavern
T5	619050.048	3107054.561	915.400	Intersection of access tunnel and powerhouse cavern
T6	618953.781	3107014.076	920.806	Plane turning point of access tunnel to transformer cavern
T7	619032.362	3107010.558	915.400	Intersection of access tunnel and transformer cavern

OCCURRENCE OF JOINTS

Joint No.			
J1(foliation)	340°	20°	
J2	235°	70°	N3°E
J3	25°	60°	

MECHANICAL PARAMETER OF JOINTS

Joint type	JRC	JCS,□MPa□	C,□MPa□	Φ,□°□
Foliation	6	70	0.20	35.0
Lithoclasts cementted(J2□J3)	8	50	0.15	28.8

NOTE

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Scale:
1:1000 0 10 20 30 40 50m
1:100 0 1 2 3 4 5m

REFERENCE DRAWINGS

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SYMBOL AND LEGEND

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Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT.LTD.

OWNER'S ENGINEER

TRACTEBEL engie jade CONSULT

CONTRACTOR

DOOSAN Enerbility

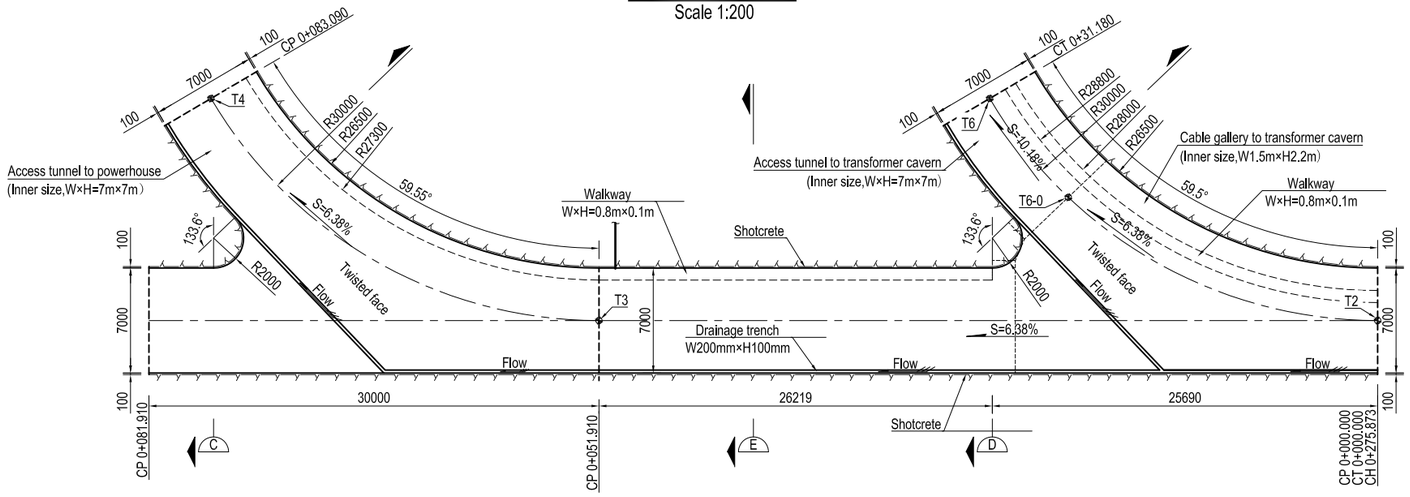
DRAWING TITLE

LAYOUT OF MAIN ACCESS TUNNEL TO POWERHOUSE

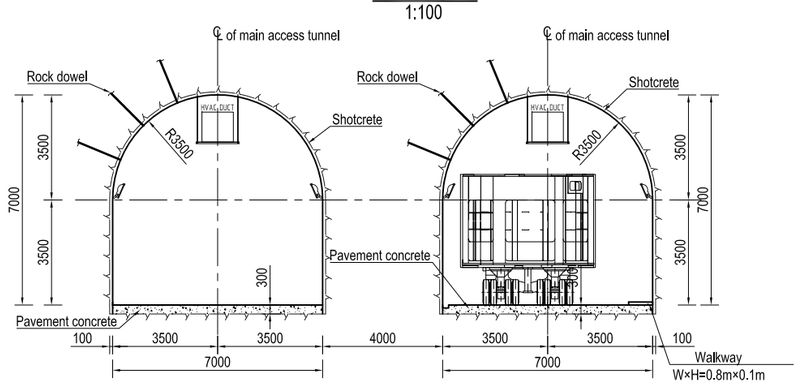
INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-090-CVL-DG-64001	2 OF 3	0

A1 (594 x 841 MM)

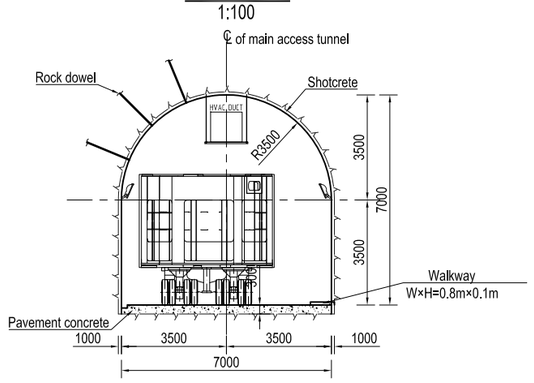
DETAIL OF BRANCH
Scale 1:200



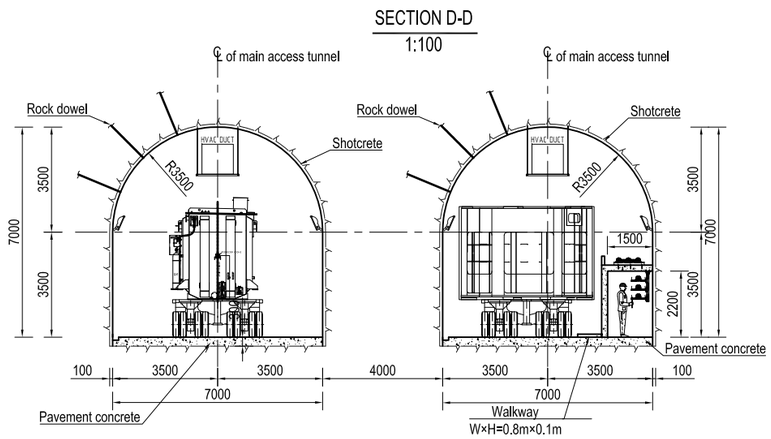
SECTION C-C
1:100



SECTION E-E
1:100



SECTION D-D
1:100



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Scale:
1:200 0 2 4 6 8 10m
1:100 0 1 2 3 4 5m

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